

Application No. 09/831,287
Amendment Dated August 9, 2005
Reply to Office Action of June 7, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF THE CLAIMS:

1. (Previously Presented) Electromotive drive comprising:
a housing having a shaft support in which the shaft of a rotor is rotationally mounted;
a stator having drive windings, said stator being traversed by the shaft support; and
a base plate supporting the stator relative to the housing, said base plate including an extrusion-coated punched-out grid and being fastened to the housing whereby transmission of a torque moment from the stator to said housing occurs via the base plate fastened in the housing, and whereby high frequency vibrations of transmitted torque are damped by the punched-out grid.

2.-10. (Canceled)

11. (Previously Presented) An electromotive drive comprising:
a housing having an upwardly extending shaft support;
a base plate attached to the housing at selected areas of the base plate less than an entire area of the base plate, the base plate comprising an extrusion-coated punched-out grid;
a stator surrounding the shaft support and being attached to the base plate whereby torque transmission occurs from the stator to the housing through the base plate and high frequency vibrations of said torque transmission are damped by the punched-out grid;
a shaft rotatably arranged within the shaft support; and,
a rotor attached to the shaft and surrounding the stator.

12. (Previously Presented) An electromotive drive comprising:
a housing having an upwardly extending shaft support;

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a base plate attached to the housing at selected areas of the base plate less than an entire area of the base plate, the base plate comprising an extrusion-coated punched-out grid;

a stator surrounding the shaft support and being attached to the base plate whereby torque transmission occurs from the stator to the housing through the base plate and high frequency vibrations of said torque transmission are damped by the punched-out grid;

a shaft rotatably arranged within the shaft support;

a rotor attached to the shaft and surrounding the stator; and,

a resilient member disposed between an inner wall of the stator and an outer wall of the shaft support whereby a gap is created between the stator and the shaft support.

13. (Previously Presented) The electromotive drive as set forth in claim 12, further including a viscous medium disposed in the gap.

14. (Previously Presented) The electromotive drive as set forth in claim 12, wherein the coupling includes grease material disposed in the gap.

15. (Previously Presented) The electromotive drive as set forth in claim 12, further including at least one flexible element which bridges the gap.

16. (Previously Presented) The electromotive drive as set forth in claim 15, wherein the at least one flexible element includes a vibration damping element.

17. (Previously Presented) The electromotive drive as set forth in claim 15, wherein:

grooves are provided in the outer wall of the shaft support; and,

the at least one flexible element includes an O-ring retained in said grooves.

18. (Previously Presented) The electromotive drive as set forth in claim 12, wherein the base plate includes torque coupling means disposed adjacent the base plate for torque coupling between the base plate and the housing.

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19. (Cancelled)

20. (Cancelled)

21. (Previously Presented) The electromotive drive as set forth in claim 17, wherein the torque coupling means further includes at least one conductor tract of the punched-out grid.

22. (Previously Presented) The electromotive drive as set forth in claim 21, wherein the conductor tract additionally serves for establishing electrical contact between the housing and the stator.

23. (Previously Presented) The electromotive drive as set forth in claim 22, wherein the base plate further includes a plastic extrusion coating.

24. (Previously Presented) An electromotive drive comprising:
a housing;
a shaft support extending from said housing;
a base plate attached to the housing at selected areas of the base plate, the base plate including an extrusion-coated punched-out grid;
a stator spaced apart from the shaft support defining a gap therebetween, the stator being directly attached to the base plate whereby a torque moment is transmitted from said stator to said housing through said base plate whereby high frequency torque variations are damped by dampening properties of said extrusion-coated punched-out grid forming said base plate;
a shaft rotatably disposed within the shaft support;
a rotor attached with the shaft; and
a resilient member disposed between the stator and the shaft support.

25. (Previously Presented) The electromotive drive as set forth in claim 24, wherein the resilient member includes a viscous medium disposed in the gap.

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26. (Previously Presented) The electromotive drive as set forth in claim 24, wherein the resilient member includes at least one O-ring arranged in the gap.

27. (Previously Presented) The electromotive drive as set forth in claim 24, wherein the resilient member includes a vibration damping means for damping vibrations of said stator.

28. (Previously Presented) A pump motor, operative in conjunction with a pump for a hydraulic system of a motor vehicle, the pump motor comprising:

a housing including an elongate shaft support;

a stator surrounding the shaft support;

a base plate including an extrusion-coated punched-out grid and a printed conductor plate, the base plate being rigidly connected to the housing and providing a route of torque transmission between the stator and the housing and providing dampening between the stator and the housing, the base plate having an area and a selected portion of said area not contacting said housing;

a shaft rotatable within the shaft support;

a rotor attached with the shaft; and

a flexible coupling disposed between the stator and the shaft support.

29. (Previously Presented) The pump motor as set forth in claim 28, wherein:

the stator and the shaft support together define a gap therebetween; and

the coupling is disposed within the gap.

30. (Previously Presented) The pump motor as set forth in claim 28, wherein said base plate is not connected to said housing over an entire area of the base plate.

31. (Previously Presented) The pump motor as set forth in claim 28, wherein said base plate is connected to said housing at selected conductor tract areas of the base plate.

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32. (Currently Amended) An electromotive drive comprising:
a housing having an elongate shaft support defining an axis;
a base plate attached to the housing, the base plate including punched-out grid;
a stator operatively connected with the shaft support in a manner to prevent relative movement between the stator and the shaft support in directions transverse said axis, and being attached to the base plate whereby torque transmission occurs from the stator to the housing through the base plate and high frequency vibrations of said torque transmission are damped by the punched-out grid;
a shaft rotatably arranged within the shaft support; and,
a rotor operatively connected with the shaft and surrounding the stator; and,
a resilient member disposed between an inner wall of the stator and an outer wall of the shaft support whereby a gap is created between the stator and the shaft support.

33. (Canceled)

34. (Previously Presented) The electromotive drive as set forth in claim 33, further including a viscous medium disposed in the gap.

35. (Previously Presented) The electromotive drive as set forth in claim 32, wherein the resilient member includes a vibration damping element.

36. (Previously Presented) The electromotive drive as set forth in claim 32, wherein the punched-out grid is an extrusion coated punched-out grid.

37. (Previously Presented) An electromotive drive comprising:
a housing;
a shaft support extending from said housing;
a punched-out grid attached to the housing;
a stator spaced apart from the shaft support defining a gap therebetween, the stator being attached to the grid whereby a torque moment is transmitted from said stator to said housing through said grid whereby high frequency torque variations are damped by dampening properties of said grid forming;
a shaft rotatably disposed within the shaft support;

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a rotor attached with the shaft; and,

a resilient member disposed between the stator and the shaft support.

38. (Previously Presented) The electromotive drive as set forth in claim 37, wherein the resilient member includes a viscous medium disposed in the gap.

39. (Previously Presented) The electromotive drive as set forth in claim 38, wherein the resilient member includes a vibration dampening means for dampening vibrations of said stator.

40. (Previously Presented) A motor comprising:
a housing including an elongate shaft support;
a stator surrounding the shaft support;
a base plate including a punched-out grid and a printed conductor plate, the base plate being connected with the housing and providing a route of torque transmission between the stator and the housing and providing dampening between the stator and the housing;
a shaft rotatable within the shaft support;
a rotor attached with the shaft; and,
means located between the stator and the shaft support for reducing relative movement between the stator and the shaft support for reducing relative movement between the stator and the shaft support for dampening vibrations of said stator.